

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A method for making nanoscale powders comprising:  
  
selecting a precursor mixture comprising at least one metal containing substance;  
  
treating the precursor mixture with at least one precipitating agent in a flow reactor system such that a product value of the axial velocity, the axial length and the inverse of the axial dispersion coefficient in the flow reactor system ~~yield a plug flow index of~~ is more than 5;  
  
wherein the treatment of the precursor mixture with the precipitating agent precipitates nanoscale powders comprising at least one metal containing precursor;  
  
wherein the precipitated nanoscale powders are washed with a second metal containing substance; and  
  
wherein the washed nanoscale powders are calcined to yield nanoscale powders.
2. (Original) The method of claim 1 wherein the precursor mixture comprises at least two metals.
3. (Original) The method of claim 1 wherein the precipitated nanoscale powder comprises hydroxide.
4. (Currently Amended) The method of claim 1 wherein the ~~flow reactor system has a plug flow index~~ product value is greater than 50.
5. (Currently Amended) The method of claim 1 wherein the ~~flow reactor system has a plug flow index~~ product value is greater than 500.

6. (Original) The method of claim 1 wherein the second metal containing substance comprises an organometallic.
7. (Original) The method of claim 1 wherein the calcination is performed in air.
8. (Original) The method of claim 1 wherein the calcination is performed in an oxidizing atmosphere.
9. (Original) The method of claim 1 wherein the calcination is performed in a reducing atmosphere.
10. (Original) The method of claim 1 wherein the calcination is performed in a reactive atmosphere.
11. (Original) The method of claim 1 wherein the calcined nanoscale powders comprise oxygen.
12. (Original) The method of claim 1 wherein the calcined nanoscale powders comprise nitrogen.
13. (Original) The method of claim 1 wherein the calcined nanoscale powders comprise carbon.
14. (Original) The method of claim 1 wherein the calcined nanoscale powders comprise metal.
15. (Original) The method of claim 1 wherein the calcined nanoscale powders comprise non-metal.
16. (Original) A device comprising the nanoscale powder prepared using the method of claim 1.

17. (Original) A product comprising the nanoscale powder prepared using the method of claim 1.

18. (Original) A coating comprising the nanoscale powder prepared using the method of claim 1.

19. (Original) The method of claim 1 wherein the second metal containing substance comprises an element selected from the group consisting of: Ti, Zr, Si, Zn, Cu, Sn, Ce, Y and Al.

20. (Original) A dispersion comprising the nanoscale powder prepared using the method of claim 1.